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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/505,447	01/14/2005	Minoru Oda	258187US0PCT	3216
22850 7590 08/20/2009 OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, L.L.P. 1940 DUKE STREET ALEXANDRIA, VA 22314				
EXAMINER				
KRUEER, KEVIN R				
ART UNIT		PAPER NUMBER		
1794				
NOTIFICATION DATE		DELIVERY MODE		
08/20/2009		ELECTRONIC		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

patentdocket@oblon.com
oblonpat@oblon.com
jgardner@oblon.com

Office Action Summary

Application No.

10/505,447

Applicant(s)

ODA ET AL.

Examiner

KEVIN R. KRUEER

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 28 May 2009.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 5 and 8-17 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 5 and 8-17 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 9/2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/06)
- 4) ☐ Interview Summary (PTO-413)
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____
- Paper No(s)/Mail Date _____

DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 5 and 8-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Eichenauer (US 7,186,778) in view of Adams et al (US 4,927,675) .

Eichenauer teaches a thermoplastic molding composition which feature improved impact and reduced opacity. The composition comprises 100-1500pbw). The matrix is herein relied upon to read on the claimed continuous phase and comprises styrene and methyl methacrylate in a ratio of 90:10 –50:50 (col 2, lines 63+). The grafted particle (a) comprises a grafted phase of styrene and methyl methacrylate (col 2, lines 30+) in relative amounts of 90:10-50:50 and a butadiene elastomer phase. With a rubber phase of greater than 50%. . Said grafted rubber is understood to read on said claimed “elastomer and the block copolymer of claim 8. Furthermore the particle is understood to read on the claimed dispersed stage.

Said refractive index difference between the continuous phase and the dispersed phase is not explicitly taught to be not more than 0.05. However, Eichenauer teaches opacity should be reduced. Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to minimize the refractive index difference between the matrix and the particles in order to minimize opacity.

Eichenbauer teaches the core layer composition but does not teach a surface film should be applied to said core layer. However, Adams teaches improved composite materials wherein the core comprises a thermoplastic resin and an organic constituent dispersed therein (abstract). The thermoplastic herein is understood to be equivalent to the styrene copolymer. The "organic constituent" may be an impact modifier (col 4, lines 42+) which is understood to be equivalent to the elastomeric styrene polymer of Eichenbauer. Adams teaches surface films consisting of the thermoplastic material should be applied to said composite materials to prevent migration of the organic constituents dispersed in the core (col 1, lines 6+). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to apply surface films consisting of the copolymer matrix to the composite material taught in Eichenbauer in order to prevent migration of the additive to the surface.

With regards to the claimed thickness limitations, the examiner takes the position that it would have been obvious to one of ordinary skill in the art at the time the invention was made to vary the thickness of the laminate according to the desired end use. Furthermore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to vary the relative thickness of the protective layer depending upon the desired migration resistance.

With respect to claim 8, the examiner takes the position said limitation is inherently met since the surface layer and the substrate layer comprise the same composition.

With respect to claims 10-14, the examiner takes the position that the preamble limitations do not inherently introduce structure to the claim thus distinguishing the claimed invention from the invention taught in the prior art.

With regards to claim 15, the method of making a product does not patentably distinguish a claimed product from the prior art unless it can be shown that the method of making the product inherently results in a materially different product. No such showing has been made. See also, column 10, lines 43+ wherein Eichenbauer teaches the sheet may be shaped by traditional methods.

With regards to claim 17, it would have been obvious to the skilled artisan to select the weight of the blocks in order to optimize particle size and hardness.

Response to Arguments

Applicant's arguments filed May 28, 2009 have been fully considered but they are moot in view of the new grounds of rejection.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the

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shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to KEVIN R. KRUER whose telephone number is (571)272-1510. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Callie Shosho can be reached on 571-272-1123. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Kevin R. Krue/

Patent Examiner-Art Unit 1794

